

March 3, 2009

EPA Region 5 Records Ctr.

Mr. Kevin Turner USEPA Regional V Emergency Response Branch 8588 Route 148 Marion, Illinois 26959 Mr. Steven Faryan USEPA Regional V Emergency Response Branch HSE-5J 77 West Jackson Blvd. Chicago, Illinois 60604-3590

RE:

Dissolved Phase Investigation Work Plan– March 2009
The Hartford Area Hydrocarbon Plume Site/Hartford, Illinois ILR000128249 – Madison County – LPC 1190505040
URS Project No. 215612129

Dear Messrs. Turner and Faryan:

URS Corporation (URS), on behalf of the Hartford Working Group (HWG) is submitting this Dissolved Phase Investigation Work Plan. This Work Plan is based on the recommendations from Clayton's (2006) Dissolved Phase Groundwater Investigation Report, the Response to Agency Technical Review Comments on the Dissolved Phase Groundwater Investigation Report letter, dated November 3, 2006, and the conference call with USEPA and IEPA on May 16, 2007.

Please contact me with any questions.

tum Steroff

Very truly yours,

Steven J. Shroff Project Manager

Encl.: Dissolved Phase Investigation Work Plan– March 2009

cc: Hartford Working Group

Michelle Majack (USEPA, Region 5 – 1 copy) Jim Moore (IEPA, Springfield – 3 copies) Chris Cahnovsky (IEPA, Collinsville – 1 copy)

URS

Messrs. Turner and Faryan USEPA Region V March 3, 2009 Page 2

Dave Webb (Illinois DPH – 1 copy)
Tom Binz (Professional Environmental Engineers Inc./USEPA – 4 copies)
Don Bussey (USEPA – 1 copy)
Atul Salhotra (RAM Group)

1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63110 Phone: 314.429.0100 Fax: 314.429.0462

DISSOLVED PHASE INVESTIGATION WORK PLAN

1190505040 – Madison County – ILR000128249 The Hartford Area Hydrocarbon Plume Site Hartford, Illinois

Prepared for Hartford Working Group Hartford, Illinois

March 2009

URS Corporation 1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63110 (314) 429-0100 **Project #21562129.00006**

Dissolved Phase Investigation Work Plan-2009 The Hartford Working Group / Hartford, IL

TABLE OF CONTENTS

SECTION 1	INTRODUCTION	1-1
SECTION 2	PREVIOUS INVESTIGATIONS	2-1
SECTION 3	SCOPE OF WORK	3-1
SECTION.4	REFERENCES	4-1

List of Tables

Table 1 List of Monitoring Wells Gauged on a Quarterly Basis

List of Figures

Figure 1 Village of Hartford, IL and Surrounding Area Map

Figure 2 Site Features Map Figure 3 Sample Locations



Dissolved Phase Investigation Work Plan (2009) The Hartford Working Group / Hartford, IL

SECTIONONE Introduction

This Dissolved Phase Investigation Work Plan was prepared for The Hartford Area Hydrocarbon Plume Site (Site) in Hartford, Illinois (Figure 1). This Work Plan was prepared by URS Corporation (URS), on behalf of the Hartford Working Group (HWG) to meet the requirements of Paragraph 51 of the Administrative Order on Consent (AOC) with the United States Environmental Protection Agency (USEPA) in the matter of The Hartford Area Hydrocarbon Plume Site (Site) (Docket No. R7003-5-04-001) (USEPA, undated). The HWG is comprised of the Atlantic Richfield Company (Atlantic Richfield), The Premcor Refining Group Inc. (Premcor), and Shell Oil Products US (Shell).

This Work Plan is based on the recommendations from Clayton's (2006) Dissolved Phase Groundwater Investigation Report, the Response to Agency Technical Review Comments on the Dissolved Phase Groundwater Investigation Report letter, dated November 3, 2006, and the conference call with USEPA and IEPA on May 16, 2007.

This investigation is designed to supplement the understanding of the dissolved phase groundwater plume.

SECTIONTWO

Previous Investigations

Dissolved Phase Groundwater Investigation Report (2006)

On behalf of the HWG in 2005, Clayton conducted a dissolved phase groundwater investigation and documented the field activities and conclusions in Clayton's (2006) *Dissolved Phase Groundwater Investigation Report*. The conclusions include:

The area of the Hartford Municipal Wells has not been impacted by the LNAPL based on the followings points:

- Regional groundwater flow in the Main Sand has consistently been northerly (away from the Hartford municipal wells) based on a review of both historical and recent flow mapping data.
- Sentinel wells have shown no indications of impact from the existing LNAPL and associated dissolved phase hydrocarbon plume since their installation in December 2003.
- The ROST investigation showed no indications of LNAPL in the vicinity of the Hartford municipal wells.
- The groundwater screening investigation in the vicinity of the Hartford municipal wells showed no indications of dissolved phase hydrocarbons.
- Groundwater flow mapping in the vicinity of the Hartford municipal wells does not indicate any pumping influence by the municipal wells beyond the immediate area of their location.

The extent of the dissolved phase hydrocarbon plume has been defined within the available area of investigation. The following findings are consistent with groundwater flow in the Main Sand which, based on a review of both historical and recent flow mapping data, has consistently been northerly:

- The groundwater screening investigation along the southern boundary of the interpreted extent of the ROST response showed no indications of dissolved phase hydrocarbons.
- The groundwater screening investigation along southern portions of the western boundary of the interpreted extent of the ROST response did not indicate the presence dissolved phase hydrocarbons above applicable TACO Tier 1 GROs for Class I groundwater (groundwater comparison values (CVs)).

SECTIONTWO

Previous Investigations

- The groundwater screening investigation and monitoring well sampling results show that
 dissolved constituents above CVs to the south and portions of the west are largely limited
 to areas of residual LNAPL (which has been reasonably defined with the ROST) with
 concentrations rapidly falling off beyond the area of residual LNAPL.
- The groundwater screening investigation along northern portions of the western boundary of the interpreted extent of the ROST response indicated the presence of dissolved phase hydrocarbons above applicable groundwater CVs.
- The groundwater screening investigation along the northern and eastern boundaries of the Site indicated the presence of dissolved phase hydrocarbon concentrations above applicable groundwater CVs.
- The groundwater screening investigation revealed that the highest concentrations of MTBE are found north of Rand Avenue.

Based on current conditions and the long-term existence of the LNAPL at the Site, the dissolved phase plume is expected to continue to form a narrow "halo" around the southern and the majority of the western portions of the LNAPL with similar dissolved phase conditions anticipated along the remaining LNAPL boundaries.

Quarterly Groundwater Monitoring

Quarterly groundwater sampling of existing wells (that do not contain LNAPL) within the four hydrostratigraphic units in Hartford has been on-going since December 2003. As wells have been installed as part of investigative activities from 2004 through 2006, they have been incorporated into the quarterly monitoring program. As proposed in the *Dissolved Phase Groundwater Investigation Report* (Clayton, 2006), a select number of monitoring wells continue to be sampled and analyzed on a quarterly basis to monitor conditions along the perimeter of the dissolved phase plume. An additional select number of monitoring wells are sampled and analyzed on an annual basis. The quarterly sampling includes selected wells screened in the Rand, EPA and Main Sand Strata, located beyond the interpreted extent of free product. The annual sampling includes selected wells, if free of LNAPL, throughout northern Hartford. Wells in the North Olive Stratum are included in the both the quarterly and annual groundwater-sampling programs; however, as water in this unit is seasonal or ephemeral and occurs as isolated areas of perched water, groundwater is typically not present during sampling events. The well locations are shown in Figure 2.



SECTIONTWO

Previous Investigations

The following conclusions from the October 2008 Quarterly Groundwater Sampling Report are consistent with historical findings and groundwater flow in the Main Sand, which, based on a review of both historical and October 2008 flow mapping data, has consistently been northerly:

- The groundwater analytical results along the southern and western boundaries of the interpreted extent of the ROST response did not indicate the presence of dissolved phase hydrocarbons.
- The groundwater analytical results along the northern and eastern boundaries of the Site indicated the presence of dissolved phase hydrocarbon concentrations above applicable groundwater CVs.
- The sentinel wells have not been impacted by the LNAPL underlying northern Hartford. Neither BTEX nor MTBE constituents were detected at quantifiable concentrations or detected above applicable TACO Tier 1 GROs for Class I groundwater. The conclusion is also based on the groundwater flow mapping of the Main Sand, which shows flow in the area of the LNAPL plume in northern Hartford is to the northeast or northwest depending on river stage elevation, away from the Hartford Well Head Protection Area (WHPA) and the Hartford municipal water supply wells.

Scope of Work

Recommendations for continued groundwater monitoring from Claytons' 2006 Dissolved Phase Groundwater Investigation Report include the following:

- Installation of nested monitoring wells south of the LNAPL to further assess groundwater flow in the deep Main Sand and potential vertical flow gradients, in the relative vicinity of the Hartford municipal wells.
- Installation of nested monitoring wells at selected areas bounding the LNAPL to further assess groundwater quality and flow, both horizontally and vertically, in northern Hartford.
- Gauging of selected monitoring wells on a quarterly basis (Table 1), including the new nested monitoring wells, to monitor groundwater flow in the more permeable units (Rand, EPA and Main Sand Strata).
- Groundwater sampling and analyses of selected monitoring wells (without LNAPL) on a quarterly basis, including the new nested wells, to monitor the dissolved phase hydrocarbon plume in Hartford.

Nested Monitoring Well Installation South of LNAPL Area

Additional monitoring well locations (Figure 3) were determined on the basis of groundwater hydropunch results which indicated the presence of dissolved phase, petroleum-related (BTEX) constituents above groundwater CVs in the Main Sand Stratum, at a depth of approximately 70 feet bgs on South Olive Street (HROST-119) and at a depth of approximately 34 feet bgs on South Olive Street (HROST-57). Both HROST-57 and HROST-119 are considered to be upgradient of, and unrelated to, the LNAPL at the Site. This is based on groundwater flow patterns (generally to the north – northeast in this area) and the absence of BTEX constituents in groundwater samples collected between HROST-119 and the LNAPL in northern Hartford at HROST-110 and HROST-111 (located between East Maple and East Hawthorne Streets). While BTEX was detected in one of the groundwater screening samples collected at HROST-112 (which is located due east of HROST-111), no benzene was detected at this location and the total BTEX concentration at HROST-112 (20.7 μg/L) is two orders of magnitude less than the total BTEX concentration at HROST-119 (1,301 µg/L). Furthermore, sentinel well HMW-29, which is located approximately 270 feet to the west-southwest of HROST-57, is screened over the same interval sampled at HROST-57 and no detectable BTEX concentrations associated with the LNAPL have been identified there since groundwater sampling began in December 2003.

Scope of Work

To better understand groundwater flow, in the vicinity of HROST-57 and HROST-119, a nested monitoring well (HWM-57A,B) is proposed to be installed on East Second Street (Figure 3). In this area, the nested monitoring wells will help improve the understanding of vertical flow between the shallow and deep Main Sand, as well as general flow within the deep Main Sand. In addition, these wells will help improve the understanding of the apparent groundwater divide created in the east central portion of Hartford by pumping on the Premcor facility. HMW-57A will be installed to straddle the water table with a screen interval from approximately 25 to 40 feet bgs and HMW-57B will be installed to screen the deeper portion of the Main Sand from approximately 65 to 70 feet bgs.

Nested Monitoring Well Installation

Groundwater screening has also indicated the presence of dissolved phase, petroleum-related (BTEX) constituents above groundwater CVs in the Main Sand Stratum, at depth, along the leading edge of the dissolved phase plume to the northwest. As indicated above, additional activities will be required to address this portion of the dissolved phase groundwater plume. To enable a more complete understanding of potential groundwater impacts, especially at depth within the Main Sand, two new well nests (HMW-55 and HMW-56) are proposed to be installed along the levee and Illinois Route 3 corridor, west of West Arbor and West Cherry Streets, respectively (Figure 3). At these locations, a monitoring well will be placed in each interpreted permeable strata. Only the Rand Stratum and the Main Sand are expected to be encountered at HMW-55. Therefore, at HMW-55, it is anticipated that the Rand Stratum will be screened from approximately 16 to 20 feet bgs and the Main Sand will be screened at 3 discrete depths. At HMW-56, the North Olive Stratum, the Rand Stratum, and the Main Sand are expected to be encountered. Therefore at HMW-56, it is anticipated that the North Olive Stratum will be screened from approximately 10 to 12 feet bgs, the Rand Stratum will be screened from approximately 15 to 26 feet bgs, and the Main Sand Stratum will be screened at 3 discrete depths.

The three discrete depths within the Main Sand Stratum that will be screened at both HMW-55 and HMW-56 are 1) from approximately 25 to 35 feet bgs (across the water table or up to the base of the overlying confining unit), 2) from approximately 45 to 50 feet bgs (depth at which constituents were detected above CVs during groundwater screening investigation), and 3) from approximately 65 to 70 feet bgs (approximate greatest depth at which constituents were detected during the groundwater screening investigation).

Scope of Work

In order to enhance the spatial distribution of the existing monitoring network to evaluate groundwater flow and the magnitude of groundwater impacts within the deeper portion of the Main Sand in the northeastern portion of Hartford, an additional monitoring well will be installed at existing monitoring well location HMW-48 located on North Olive Street, just south of Rand Avenue (Figure 3). At HMW-48, wells are already screen in the North Olive, Rand, EPA, and top of the Main Sand Strata. Therefore, an additional deep monitoring well will be installed in the Main Sand and screened from approximately 65 to 70 feet bgs.

Installation Procedures

Both unconfined (water table) and confined (piezometric surface) conditions are anticipated in the Main Sand Aquifer at the proposed locations. The nested monitoring wells are anticipated to be installed using a conventional hollow-stem auger or rotosonic drill rig. The shallowest monitoring well in the Main Sand will generally straddle the identified water table or be screened up to the base of the overlying confining unit, depending on conditions at the time of installation. These locations will be nested to enable evaluation of groundwater conditions at depth within the Main Sand along with both horizontal and vertical gradients.

All new monitoring wells are proposed to be constructed of 2-inch ID polyvinyl chloride (PVC) with 0.010-inch slotted screens. As these monitoring wells are intended to evaluate groundwater elevation conditions that may vary by 10 feet or more over the course of the year, the screen length of the shallow monitoring wells will be approximately 10 to 15 feet to minimize the potential of dry monitoring wells. As the deeper monitoring wells are intended to provide vertical gradient data, the screen lengths of these will be approximately five feet to minimize the influence of vertical groundwater gradients. The general SOP for well installation is as follows:

- 1) A #1 sand filter pack will be placed around the screen and extend a maximum of six inches below the bottom of the screen and extending to the top of the screen. Five gallons of water will be added (if no water is present) after each foot of sand pack is placed. The sand pack will then be surged with a surge block for ~20-30 minutes. After surging, 1-foot of a #00 sand filter pack will be placed above the #1 filter pack.
- 2) A minimum three-foot thick bentonite-pellet seal will be placed above the sand pack. Each foot of seal will be allowed to hydrate for ~20-30 minutes after the addition of the appropriate amount of water.

Scope of Work

- 3) A cement-bentonite grout mixture will then be placed from the top of the bentonite seal to approximately two feet below the ground surface.
- 4) The surface completion will include installation of a locking cap and a flush mount well cover.

This may be modified based on field conditions. Actual screened depths will be determined in the field after the soil boring logs have been reviewed. The intent is to screen the more permeable zones of the Main Sand.

Each new well will be surveyed by an Illinois-licensed surveyor for horizontal control referenced to Illinois State Plane West Zone NAD 83 (feet) and vertical control referenced to mean sea level (feet). This survey will enhance the horizontally and vertically controlled unified database of existing wells within Hartford.

CPT/ROST and Multi-Level Groundwater Investigation

During the Dissolved Phase Groundwater Investigation in 2005, railroad access agreements necessary for completion of the investigation were not acquired. Therefore, to enhance the understanding of the Site subsurface along the railroad corridor east of North Olive Street, the seven remaining cone-penetration testing/ Rapid Optical Screening Tool (CPT/ROST) locations and the six remaining discreet groundwater sampling collected from six of the seven CPT/ROST locations will be completed as originally proposed in the May 24, 2005 *Dissolved Phase Groundwater Investigation Work Plan.* This includes analysis of approximately 35 discrete groundwater samples for BTEX and MTBE. The sampling locations are presented on Figure 3 and include HROST-86, HROST-95, HROST-100, HROST-102, HROST-105, HROST-108, and HROST-127. HROST-105 and HROST-127 will be installed in areas of known LNAPL. Groundwater samples will not be collected from HROST-127. At HROST-105, the strata above the Main Sand will be sampled at this location if groundwater is present, however; no groundwater samples will be collected within the Main Sand at LNAPL-containing boring locations to avoid potential cross-contamination from the overlying LNAPL during advancement of sampling equipment.

Scope of Work

CPT/ROST

The initial activities will consist of assessing the geology using CPT. To further enhance the previous LNAPL investigation conducted by Clayton in 2004, the ROST technology will be employed concurrently with the CPT to identify any residual petroleum hydrocarbons at the proposed locations. The ROST technology will be applied over the entire vertical extent of the boring. Subsequent activities will consist of discrete, multi-level groundwater sampling and chemical analysis of the samples at each of the CPT/ROST locations.

The CPT borings will be advanced to the depth limits of the rig (which ranged from 50 to 86 feet during the Dissolved Phase Groundwater Investigation in 2005) to obtain geologic data. The upper 10 feet at each boring location will be hand-augered to identify potential subsurface utilities prior to all drilling activities. CPT is a technique in which an electronically instrumented probe (in this case a piezocone probe) is advanced into the subsurface media using hydraulic rams mounted inside the CPT box truck. The piezocone probe contains gauges that continuously monitor tip resistance, friction ratio, and pore pressure. Tip resistance and friction ratio are used to determine the soil stratigraphy while pore pressure is used as an indicator of soil moisture. This data is plotted onto a log. Soil stratigraphy is then classified using Campanella and Robertson's Simplified Soil Behavior Chart (Robertson and Campanella, 1983).

Decontamination will be conducted adjacent to each boring location and no soil cuttings will be produced during the testing. The boring locations will be sealed upon completion with bentonite.

The ROSTTM portion of the investigation will be completed concurrently with the CPT activities to obtain screening data on the potential in-situ distribution of petroleum hydrocarbons in the soil matrix throughout the vadose, capillary fringe, and saturated zones at the boring locations. The technology consists of a tunable laser, mounted in the truck, which is connected by optical fibers to a down-hole sensor flush with the side of the piezocone probe. The laser creates a fluorescence response in polycyclic aromatic hydrocarbons (PAH) and some aromatic petroleum compounds as the probe is advanced. A portion of the fluorescence emitted is returned through the sensor to a detection system in the truck. The ROST data are continuously recorded. A proprietary petroleum hydrocarbon compound (PHC) containing reference solution is used for ROST calibration purposes.

Any emitted fluorescence is measured simultaneously at each of four monitoring wavelengths that cover the range of fluorescence produced, from light-range (shorter wavelength) to heavy-

Scope of Work

range (longer wavelength) petroleum hydrocarbons. The relative percentage of fluorescence at each of the four wavelengths is continuously measured. The results from the monitored wavelengths are combined, based on the relative fluorescence intensity percentages of each of the four wavelengths, and plotted on the ROST log. The emitted fluorescence of the four wavelengths is totaled and recorded as the fluorescence intensity (% RE). The ROST data are presented as a color graph of fluorescence intensity (% RE) versus depth (feet). The ROST data are subject to spectral interference including naturally occurring fluorescent minerals.

Multi-Level Groundwater Sampling

The groundwater investigation will consist of six direct push multi-level groundwater samples collected from the CPT/ROST locations, completed to determine the magnitude and extent of the dissolved phase hydrocarbons at the locations. The investigation area is primarily northwest of the existing LNAPL underlying the Site. The proposed groundwater investigation locations are presented in Figure 3. Locations will be adjusted based on accessibility, clearances for utilities, and other field conditions.

The multi-level sampling will be conducted in accordance with the 2005 Dissolved Phase Investigation. The discrete multi-level sampling of any location will be dependent upon the findings of the subsurface investigation. Specifically, if the more permeable units (the North Olive, the Rand, the EPA and the Main Sand Strata) are encountered and determined to be saturated, but do not have a ROST response indicative of the presence of significant amounts of LNAPL, samples will be obtained to identify potential dissolved phase hydrocarbons within each strata. In addition, discrete vertical sampling will continue within the Main Sand to determine whether dissolved phase hydrocarbons are present at depth within this stratum. The initial sampling depth within the Main Sand will be at the surface of the saturated zone, which is expected to be approximately 30 feet bgs. Deeper Main Sand samples will be typically collected between 40 to 50 feet bgs, 50 to 60 feet bgs, and at the maximum depth achievable by the equipment. The Main Sand sampling depths will be guided by the findings of the investigation. Specifically, if distinctly more permeable or coarser zones are identified in the Main Sand, the groundwater sampling will be biased to these depths. However, this approach will be balanced by the need to obtain sufficient vertically distinct samples to identify whether dissolved phase hydrocarbons may be transported at depths below the LNAPL identified in the Main Sand.

Scope of Work

The vertically discrete groundwater samples will be collected using the CPT rig equipped with a Hydropunch (direct-push instrument). This technique involves pushing rods, which include a shielded, approximately 1.5-foot stainless steel screen attached to their ends, to the target depth. Once at the target depth, the shield is pulled back exposing the screen. Groundwater flows into the rods through the screen and tubing is lowered through the rod to retrieve the water sample.

Depending upon conditions, the number of vertically discrete groundwater samples should range from two to four at each of the sampled boring locations. In addition, quality control samples will be collected. The samples will be submitted to Teklab, Inc. for analysis. The groundwater samples and quality control samples will be analyzed for the dissolved phase hydrocarbon indicator parameters BTEX and methyl-tert-butyl-ether (MTBE). The BTEX and MTBE analysis will be performed in accordance with USEPA SW-846 Method 5030/8260B.

Decontamination activities for the groundwater sampling equipment will be conducted on secured Hartford property that had been prepared to serve as a temporary waste storage, and decontamination yard for the planned work. The boring locations will sealed upon completion with bentonite.

Dissolved Phase Investigation Work Plan (2009) The Hartford Working Group / Hartford, IL

SECTIONFOUR

References

- Bureau Veritas North America, Inc., June 22, 2007. Quarterly Groundwater Monitoring Report, April 2007, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.
- Bureau Veritas North America, Inc., June 15, 2007. Sentinel Wells Quarterly Groundwater Monitoring Report, April 2007, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.
- Clayton Group Services, Inc., May 24, 2005. Dissolved Phase Groundwater Investigation Work Plan, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.
- Clayton Group Services, Inc., December 15, 2005. LNAPL Active Recovery System Conceptual Site Model, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.
- Clayton Group Services, Inc., January 4, 2006. Dissolved Phase Groundwater Investigation Report for The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.
- Illinois Pollution Control Board, 1997. *Tiered Approach to Corrective Action Objectives: 35 IAC Part 742.* Adopted rule, Final Order June 5, 1997. Last amended February 15, 2007.
- United States Environmental Protection Agency, Region 5, Chicago, Illinois. *In the Matter of the Hartford Area Hydrocarbon Plume Site.* (Docket No. R7003-5-04-001).
- URS Corporation, January 15, 2009. October 2008 Quarterly Groundwater Monitoring Report (Including Sentinal Wells), The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249 The Hartford Working Group / Hartford, IL

75.7 444 0.745	77.00 17.00
	VIN Stratum Screened
Well	Stratum Screened
HB-16	Main
HB-30	Main
HB-31 HB-32	Main Main
ПВ-32	Maii
HB-33	Rand / C Clay / EPA / D Clay / Main Sand
HB-37	Main
HB-38 HMW-01	Main Rand
HMW-02	Main
HMW-03	EPA
HMW-04	Rand
HMW-07 HMW-08	Rand Main
HMW-09	N. Olive / B Clay / Rand
HMW-10	Main
HMW-13	North Olive
HMW-14 HMW-18	Rand / C Clay / Main Sand Main
HMW-19	Main
HMW-20	Rand / C Clay / Main Sand
HMW-21 HMW-22	N. Olive / B Clay / Rand Main
HMW-25	Main
HMW-26	Main
HMW-27	Main
HMW-28 HMW-29	Main Main
HMW-30	Rand / C Clay / Main Sand
HMW-31	Rand / C Clay / Main Sand
HMW-32	Rand / C Clay / Main Sand
HMW-33 HMW-34	Rand / C Clay / Main Sand Rand / C Clay / Main Sand
HMW-35	Rand / C Clay / Main Sand
HMW-36	Rand / C Clay / Main Sand
HMW-37 HMW-38A	Rand / C Clay / Main Sand North Olive
HMW-38B	B/C Clay (PL in B/C Clay)
HMW-38C	Main
HMW-39A HMW-39B	Main Silt (Rand Horizon)
HMW-39C	Main Silt (Rand Horizon) Main
HMW-40A	A Clay
HMW-40B	Main
HMW-40C HMW-41A	Main Silt (Rand Horizon)
HMW-41B	Main Silt (Rand Horizon)
HMW-41C	Main
HMW-42A	Main Silt (Rand Horizon)
HMW-42B HMW-43A	Main North Olive
HMW-43B	B/C Clay (PL in B/C Clay)
HMW-43C	Main
HMW-44A HMW-44B	North Olive Rand
HMW-44C	Main
HMW-44D	Main
HMW-45A	North Olive
HMW-45B HMW-45C	Rand Main
HMW-46A	North Olive
HMW-46B	B/C Clay (PL in B/C Clay)
HMW-46C HMW-47A	Main North Olive
HMW-47B	B/C Clay (PL in B/C Clay)
HMW-47C	Main
HMW-48A	North Olive
HMW-48B HMW-48C	Rand EPA
HMW-48D	Main
HMW-49A	North Olive
HMW-49B	B/C Clay (PL in B/C Clay)
HMW-49C HMW-49D	EPA Main
HMW-50A	Rand

The Hartford Area Hydrocarbon Plume Site

1190505040 — Madison County — ILR 000128249 The Hartford Working Group / Hartford, IL

Well Stratum Screamed	G. C. A. A. S. C. S. S.	
HMW-50B	jiri. Karal	
HMW-50B	Well	Stratum Screened
HMW-50B		
HMW-50C Main HMW-51A North Olive HMW-51B Main HMW-51C Main HMW-52A Main Silt (N. Olive Horizon) HMW-52B Main Silt (Rand Horizon) HMW-52B Main Silt (Rand Horizon) HMW-52B Main Silt (Rand Horizon) Main Sand HMW-53C Main Main Silt (Rand Horizon) / Main Sand HMW-53B Main Silt (Rand Horizon) / Main Sand HMW-53B Main Main HMW-54C Main HMW-54C Main HMW-54C Main HMW-54C Main HP-01C Main HP-01C Main HP-01C Main HP-03B Main HP-03B Main HP-03B Main HP-03B Main HP-04B Main HP-04B Main HP-05B Main HP-05B Main HP-05B Main HP-05B Main HP-05B Main HP-06 Main HP-07 Main HP-09 HP-09 Main HP-09 H		
HMW-51A		
HMW-51B		
HMW-52A Main Silt (N. Olive Horizon)		
HMW-52B		
HMW-52C Main North Olive HMW-53B Main Silt (Rand Horizon) / Main Sand HMW-53C Main Main HMW-54A North Olive HMW-54A Main HMW-54C Main HMW-54C Main HMW-54C Main HP-01A Main HP-01B Main HP-01C Main HP-01B Main HP-02 Main HP-03C Main HP-03C Main HP-03C Main HP-03C Main HP-04A Main HP-04B Main HP-04B Main HP-05B Main HP-05C Main HP-05C Main HP-05C Main HP-05C Main HP-06 Main HP-09 Main HP-07D Rand MP-05S A Clay MP-06D Rand MP-06S A Clay MP-07D Rand MP-08D Rand MP-09D Main HP-10D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-11S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-13D Main Silt (Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16S A Clay MP-29 North Olive MP-29 Rand MP-29 North Olive MP-29 North Olive MP-30 Rand MP-30		
HMW-53A North Olive HMW-53B Main Silt (Rand Horizon) / Main Sand HMW-54C Main Main HMW-54A North Olive HMW-54A North Olive HMW-54B Main HHP-01B Main HHP-01B Main HHP-01B Main HHP-03B Main HHP-03B Main HHP-03B Main HHP-04B Main HHP-04B Main HHP-04B Main HHP-05B Main HHP-05B Main HHP-05B Main HHP-05B Main HHP-06 Main HHP-06 Main HHP-07 Main HHP-08 Main HHP-09 HHP-09 Main HHP-09 HHP-09 Main HHP-09		
HMW-53B		
HMW-54A North Olive	HMW-53B	
HMW-54B Main HMW-54C Main HMW-54C Main HHP-01A Main HHP-01B Main HHP-01C Main HHP-02 Main HHP-03A Main HHP-03A Main HHP-03B Main HHP-03B Main HHP-04A Main HHP-04B Main HHP-04B Main HHP-05C Main HHP-05A Main HHP-05A Main HHP-05A Main HHP-05C Main HHP-05B Main HHP-06B Main HHP-06B Main HHP-07 Main HHP-09 MHP-09 MHP-09 MAIN HHP-09		
HiMW-54C Main HiP-01A Main HiP-01B Main HiP-01C Main HiP-02 Main HiP-03A Main HiP-03B Main HiP-03B Main HiP-03C Main HiP-04A Main HiP-04A Main HiP-04A Main HiP-05A Main HiP-05B Main HiP-05B Main HiP-05B Main HiP-05B Main HiP-06 Main HiP-07 Main HiP-09 Main HiP-09 Main HiP-09 Main HiP-09 Main Mir-09 Main Mir-05D Rand Mir-06S A Clay Mir-06D Rand Mir-06S A Clay Mir-07D Rand Mir-08S A Clay Mir-08D Rand Mir-08S A Clay Mir-08D Rand Mir-08S A Clay Mir-09D Rand Mir-08S A Clay Mir-09D Rand Mir-09S A Clay Mir-09D Rand Mir-09S A Clay Mir-01D BiC Clay / Main Silt (Rand Horizon) Mir-11D BiC Clay / Main Silt (Rand Horizon) Mir-11D BiC Clay / Main Silt (Rand Horizon) Mir-13D Main Silt (Rand Horizon) Mir-13D Main Silt (Rand Horizon) Mir-13D Main Silt (Rand Horizon) Mir-15D Main Silt (Rand Horizon) Mir-15D Main Silt (Rand Horizon) Mir-15D Main Silt (Rand Horizon) Mir-15S A Clay Mir-15D Main Silt (Rand Horizon) Mir-15D Main Silt (Rand		
HP-01B Main HP-01B Main HP-01C Main HP-01C Main HP-03A Main HP-03B Main HP-03B Main HP-03B Main HP-03B Main HP-04A Main HP-04A Main HP-04A Main HP-04B Main HP-05B Main HP-05C Main HP-05C Main HP-05C Main HP-05C Main HP-05 Main HP-07 Main HP-09 Main HP-09 Main HP-09 Rand MP-05D Rand MP-05D Rand MP-05S A Clay MP-06D Rand MP-05S A Clay MP-07D Rand MP-07S A Clay MP-07D Rand MP-07S A Clay MP-09D Rand MP-09S A Clay MP-09D Rand MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-13D Main Silt (Rand Horizon) MP-14S A Clay MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16S A Clay MP-16D Main Silt (Rand Horizon) MP-18 A Clay MP-19D Main Silt (Rand Horizon) MP-18 A Clay MP-29 Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-290 Rand MP-290 Rand MP-290 Rand MP-291 Main MP-31A A Clay MP-31A A Clay MP-31B North Olive MP-31B North Olive MP-32C Main MP-32C Main MP-33A A Clay		
HP-01C Main HP-02 Main HP-03A Main HP-03B Main HP-03B Main HP-03C Main HP-04A Main HP-04B Main HP-04B Main HP-05B Main HP-05B Main HP-05B Main HP-05B Main HP-06 Main HP-07 Main HP-07 Main HP-08 Main HP-09 Main HP-09 Main HP-09 Main HP-09 Main MP-05D Rand MP-05D Rand MP-05D Rand MP-05D Rand MP-06S A Clay MP-07D Rand MP-07S A Clay MP-07D Rand MP-08D Rand MP-09D Rand MP-09D Rand MP-09D Rand MP-09D Rand MP-09S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11D B Clay / Rand / C Clay MP-12D B Clay / Rand / C Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-15S A Clay MP-14D Main Silt (Rand Horizon) MP-15S A Clay MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-15S A Clay MP-29 Main Silt (Rand Horizon) MP-16S A Clay MP-29 Main Silt (Rand Horizon) MP-18 Rand MP-29 Rand MP-		
HP-02 Main HP-03A Main HP-03B Main HP-03B Main HP-04B Main HP-04A Main HP-04B Main HP-04C Main HP-05B Main HP-05C Main HP-05C Main HP-05C Main HP-05C Main HP-05C Main HP-06 Main HP-07 Main HP-09 Main HP-09 Main HP-09 Main HP-09 Rand MP-05D Rand MP-05D Rand MP-05D Rand MP-05C A Clay MP-06D Rand MP-06D Rand MP-06D Rand MP-06D Rand MP-06D Rand MP-07S A Clay MP-08D Rand MP-09S A Clay / Main Silt (Rand Horizon) MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-12D B Clay / Rand / C Clay MP-13D Main Silt (Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15		
HP-03A		
HP-03B Main HP-04C Main HP-04B Main HP-05A Main HP-05B Main HP-05B Main HP-06 Main HP-07 Main HP-08 Main HP-09 Main HP-09 Main HP-09 Main HP-08 Main HP-09 Main HP-08 Main HP-09 Main IEPA-04 Main MP-05D Rand MP-05D Rand MP-05D Rand MP-05D Rand MP-06D Rand MP-07D Rand MP-07D Rand MP-07D Rand MP-08B A Clay MP-09D Rand MP-09D Rand MP-09D Rand MP-10B B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Rand / C Clay<		
HP-03C Main HP-04A Main HP-04B Main HP-05A Main HP-05B Main HP-05C Main HP-06 Main HP-07 Main HP-08 Main HP-09 Rand MP-05D Rand MP-05D Rand MP-06D Rand MP-06D Rand MP-07D Rand MP-07D Rand MP-08D Rand MP-10B		
HP-04B Main HP-05C Main HP-05B Main HP-05C Main HP-06 Main HP-07 Main HP-08 Main HP-09 Main MP-05D Rand MP-05D Rand MP-06D Rand MP-07D Rand MP-07D Rand MP-07D Rand MP-07D Rand MP-08S A Clay MP-09D Rand MP-09D Rand MP-09D Rand MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Rand / C Clay	HP-03C	Main
HP-04C Main HP-05A Main HP-05B Main HP-06C Main HP-07 Main HP-08 Main HP-09 Main HP-09 Main HP-09 Main HP-08 Main HP-09 Main HP-08 Main MP-05D Rand MP-05D Rand MP-05D Rand MP-06S A Clay MP-07D Rand MP-07S A Clay MP-08D Rand MP-08D Rand MP-09D Rand MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-11D B/C Clay / Rand Hori		
HP-05A Main HP-05B Main HP-05C Main HP-06 Main HP-07 Main HP-08 Main HP-09 Main HP-09 Main HP-09 Main HP-09 Main MP-05D Rand MP-05D Rand MP-06D Rand MP-06D Rand MP-07D Rand MP-08D Rand MP-10S A Clay MP-10B Main Silt (Rand Horizon)		
HP-05B Main HP-05C Main HP-06 Main HP-07 Main HP-08 Main HP-09 Main HP-09 Main HP-09 Main HP-09 Main HP-05D Rand MP-05D Rand MP-05D Rand MP-06S A Clay MP-06D Rand MP-07D Rand MP-07D Rand MP-08D Rand MP-08D Rand MP-08D Rand MP-09D Rand MP-09D Rand MP-09D Rand MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-12D B Clay / Rand / C Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16S A Clay MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-29A North Olive MP-29B Rand MP-29D Main MP-30C Main MP-30C Main MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
HP-06 Main HP-07 Main HP-08 Main HP-09 Main HP-09 Main IEPA-04 Main MP-05D Rand MP-05S A Clay MP-06D Rand MP-06D Rand MP-07D Rand MP-07S A Clay MP-08D Rand MP-08D Rand MP-09D Rand MP-09D Rand MP-09D Rand MP-09D Rand MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12D B Clay / Rand / C Clay MP-13D Main Silt (Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand		
HP-07 Main HP-08 Main HP-09 Main IEPA-04 Main MP-05D Rand MP-06D Rand MP-06D Rand MP-06D Rand MP-06D Rand MP-07D Rand MP-08D Rand MP-08D Rand MP-08D Rand MP-08S A Clay MP-09D Rand MP-08D Rand MP-10S A Clay MP-10B Ralc Rand MP-11D B/C Clay / Main Silt (Rand Horizon) MP-12D B Clay / Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) <td></td> <td></td>		
HP-08		
HP-09 Main IEPA-04 Main MP-05D Rand MP-05S A Clay MP-06D Rand MP-06S A Clay MP-06S A Clay MP-07D Rand MP-07D Rand MP-08D Rand MP-08D Rand MP-08D Rand MP-09D Rand MP-09D Rand MP-09D Rand MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11D B Clay / Rand / C Clay MP-12D B Clay / Rand / C Clay MP-13D Main Silt (Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-30B Rand MP-30C Main MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-32C Main MP-33A A Clay MP-34B MP-34B MP-34B MP-34B MP-34B MP-34B MP-34B MP-34B MP-34B		
MP-05D Rand MP-05S A Clay MP-06D Rand MP-06S A Clay MP-07D Rand MP-07S A Clay MP-08D Rand MP-08D Rand MP-09D Rand MP-09D Rand MP-09S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-26		
MP-05S A Clay MP-06D Rand MP-06S A Clay MP-07D Rand MP-07S A Clay MP-08D Rand MP-08S A Clay MP-09D Rand MP-09D Rand MP-09D A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12D B Clay / Rand / C Clay MP-12D B Clay / Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay /		
MP-06D Rand MP-06S A Clay MP-07D Rand MP-07S A Clay MP-08D Rand MP-08S A Clay MP-09D Rand MP-09D A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-29A North Olive MP-30B Rand MP-29D		
MP-06S A Clay MP-07D Rand MP-07S A Clay MP-08D Rand MP-08S A Clay MP-09D Rand MP-09S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30C Main <td></td> <td></td>		
MP-07S A Clay MP-08D Rand MP-08S A Clay MP-09D Rand MP-09S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-30B Rand MP-29D Main MP-31B		
MP-08D Rand MP-08S A Clay MP-09D Rand MP-09D Rand MP-09D Rand MP-09D Rand MP-10D B/C Clay / Main Silt (Rand Horizon) MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11D B Clay / Rand / C Clay MP-12D B Clay / Rand Horizon) MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-25 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-30B Rand MP-30C Main MP-30B Ra	MP-07D	
MP-08S A Clay MP-09D Rand MP-09S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30C Main MP-30B Rand MP-31B North Olive MP		
MP-09D Rand MP-09S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10D A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30B Rand MP-30C Main MP-31A A Clay MP-31B </td <td></td> <td></td>		
MP-09S A Clay MP-10D B/C Clay / Main Silt (Rand Horizon) MP-10S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30A North Olive MP-30B Rand MP-30C Main MP-31B North Olive MP-31B North Olive		
MP-10S A Clay MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11D B Clay / Rand / C Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30B Rand MP-30C Main <		A Clay
MP-11D B/C Clay / Main Silt (Rand Horizon) MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-26 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30C Main MP-31B North Olive <tr< td=""><td></td><td></td></tr<>		
MP-11S A Clay MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay <td></td> <td></td>		
MP-12D B Clay / Rand / C Clay MP-12S A Clay MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-13D Main Silt (Rand Horizon) MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16B A Clay MP-16D Main Silt (Rand Horizon) MP-16D Main Silt (Rand Horizon) MP-26 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30C Main MP-30C Main MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-13S A Clay MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-14D Main Silt (Rand Horizon) MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-26 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-14S A Clay MP-15D Main Silt (Rand Horizon) MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-15S A Clay MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-30B Rand MP-31A A Clay MP-31A A Clay MP-31B North Olive MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-16D Main Silt (Rand Horizon) MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-16S A Clay MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-25 N. Olive / B Clay / Rand MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-30D Main MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-26 N. Olive / B Clay / Rand MP-27 N. Olive / B Clay / Rand MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-28 Rand MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		N. Olive / B Clay / Rand
MP-29A North Olive MP-29B Rand MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-29B Rand MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-29C Rand MP-29D Main MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-30A North Olive MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay	MP-29C	
MP-30B Rand MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-30C Main MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-31A A Clay MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-31B North Olive MP-31C Main MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay		
MP-32A North Olive MP-32B Main MP-32C Main MP-33A A Clay	MP-31B	North Olive
MP-32B Main MP-32C Main MP-33A A Clay		
MP-32C Main MP-33A A Clay		
MP-33A A Clay		
Lin con		
MP-33B North Olive	MP-33B	North Olive

The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249 The Hartford Working Group / Hartford, IL

Well Stratum Screened	
Well Stratum Screened Well We	
MP-33C Rand MP-33D Main MP-34A North Olive MP-34B Rand MP-34C Main MP-35A A Clay MP-35B North Olive MP-35C Rand MP-35C Rand MP-35D Main MP-36A North Olive MP-36A North Olive MP-37B Rand MP-37C C Clay MP-37B Rand MP-37C C Clay MP-37D Main MP-37D Main MP-38A North Olive MP-38B Rand MP-37C North Olive MP-38B Rand MP-39C C Clay MP-39B Rand MP-39C Main MP-39C Main MP-39C Main MP-40C Main MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main	
MP-33C Rand MP-33D Main MP-34A North Olive MP-34B Rand MP-34C Main MP-35A A Clay MP-35B North Olive MP-35C Rand MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive<	
MP-33C Rand MP-33D Main MP-34A North Olive MP-34B Rand MP-34C Main MP-35A A Clay MP-35B North Olive MP-35C Rand MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive<	
MP-34A North Olive MP-34B Rand MP-34C Main MP-35A A Clay MP-35B North Olive MP-35C Rand MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40B Main MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-34B Rand MP-34C Main MP-35A A Clay MP-35B North Olive MP-35C Rand MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-39C Main MP-39B Rand MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-34C Main MP-35A A Clay MP-35B North Olive MP-35C Rand MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-39C Main MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40B Main Silt (Rand Horizon) MP-41A North Olive MP-41B Rand MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-35A A Člay MP-35B North Olive MP-35C Rand MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-39C Main MP-39B Rand MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-35C Rand MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-35D Main MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-39C Main MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-36A North Olive MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-39C Main MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40B Main Silt (Rand Horizon) MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-36B Rand MP-36C Main MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-37A North Olive MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-37B Rand MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-37C C Clay MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-37D Main MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-38A North Olive MP-38B Main Silt (Rand Horizon) MP-38C Main MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-38C Main MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-39A North Olive MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Sitt (Rand Honzon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-39B Rand MP-39C Main MP-40A A Clay MP-40B Main Sift (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-39C Main MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-40A A Clay MP-40B Main Silt (Rand Horizon) MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	_
MP-40C Main MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	
MP-41A North Olive MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	$\overline{}$
MP-41B Rand MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	\dashv
MP-41C Main MP-42A North Olive MP-42B Rand MP-42C Main MP-43A North Olive	{
MP-42B Rand MP-42C Main MP-43A North Olive	\dashv
MP-42C Main MP-43A North Olive	
MP-43A North Olive	\Box
	—
MP-43C Main Silt (Rand Horizon) / Main Sand	\dashv
MP-44A A Clay	\Box
MP-44B North Olive	
MP-44C Rand MP-44D Main	
MP-45A North Olive	\dashv
MP-45B Rand	一
MP-45C Main	\Box
MP-46A North Olive MP-46B Rand	
MP-46C Main	
MP-47A North Olive	=
MP-47B Rand	
MP-47C Main	
MP-48A North Olive MP-48B Main Silt (Rand Horizon)	-
MP-48C Main Sit (Rand Horizon)	
MP-49A A Clay	
MP-49B Rand	
MP-49C Main	
MP-50A A Clay MP-50B Rand	\dashv
MP-50C Main	
MP-51A A Clay	
MP-51B North Olive	\Box
MP-51C Rand	
MP-51D Main MP-52A A Clay	-
MP-52B Rand	\dashv
MP-52C Main	
MP-53A A Clay	\Box
MP-53B Rand	
MP-53C Main MP-54A North Olive	
MP-54B Rand	
MP-54C Main	〓
MP-55A N. Olive / B Clay	
MP-55B Rand	
MP-55C Main MP-56A North Olive	긕
MP-56B Rand	\dashv
MP-56C Main	一

The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249 The Hartford Working Group / Hartford, IL

Participants repair of second	Page of the control o
Wall	
w-n	Statum Screened
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	30 Attill Sciented
MP-57A	North Olive
MP-57B	Rand
MP-57C	Main
MP-58A	A Clay
MP-58B	Main Silt (Rand Horizon)
MP-58C	Main
MP-59A	A Clay
MP-59B	Main Silt (Rand Horizon)
MP-59C	Main
MP-60A	A Clay
MP-60B	Main Silt (Rand Horizon)
MP-60C MP-61A	Main A Clay
MP-61B	Main Silt (Rand Horizon)
MP-61C	Main
MP-62A	A Clay
MP-62B	Main Silt (N. Olive Horizon)
MP-62C	Main
MP-63A	A Clay
MP-63B	Main Silt (N. Olive Horizon)
MP-63C	Main
MP-64A	A Clay
MP-64B	Main Silt (N. Olive Horizon)
MP-64C	Main Main Silt (N. Olive Horizon)
MP-65A MP-65B	Main Silt (N. Olive Horizon) Main
MP-65C	Main
MP-66A	Main Silt (N. Olive Horizon)
MP-66B	Main Silt (Rand Horizon)
MP-66C	Main
MP-67A	A Clay
MP-67B	Main Silt (Rand Horizon)
MP-67C	Main
MP-68	North Olive
MP-69	North Olive
MP-70	North Olive
MP-71 MP-72	North Olive
MP-73	North Olive
MP-74	North Olive
MP-75	North Olive
MP-76	North Olive
MP-77A	A Clay
MP-77B	Main Silt (Rand Horizon)
MP-77C	Main
MP-78A	A Clay
MP-78B	North Olive
MP-78C	Rand
MP-78D MP-79A	Main North Olive
MP-79B	Rand
MP-79C	Main
MP-79D	Main
MP-80A	North Olive
MP-80B	Rand
MP-80C	Main
MP-81A	A Clay
MP-81B	Main Silt (Rand Horizon)
MP-81C	Main
MP-82A	A Clay
MP-82B MP-82C	Main Silt (Rand Horizon) Main
MP-83A	North Olive
MP-83B	Rand
MP-83C	Main
MP-84A	A Clay
MP-84B	Main Silt (Rand Horizon)
MP-84C	Main Silt (Rand Horizon) / Main Sand
MP-85A	North Olive
MP-85B	Rand
MP-85C	EPA
MP-85D	Main
MP-86A	A Clay
MP-86B	
MP-86C	Main Silt (Rand Horizon) Main

The Hartford Area Hydrocarbon Plume Site

1190505040 -- Madison County -- ILR 000128249 The Hartford Working Group / Hartford, IL.

Well	Stratum Screened
	●600-00000 11 11 11 200 0000 11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
200 m	
MP-87A MP-87B	A Clay Main Silt (Rand Horizon)
MP-87C	Main
MP-88A MP-88B	A Clay Main Sitt (Rand Horizon)
MP-88C	Main
MP-89A MP-89B	A Clay
MP-89C	Main Silt (Rand Horizon) Main
MP-90BR	Main Silt (N. Olive Horizon)
MP-90C MP-91B	Main Silt (Rand Horizon) / Main Sand Main Silt (N. Olive Horizon)
MP-91C	Main Silt (Rand Horizon)
MP-91D MP-92C	Main North Olive
MP-92D	Main Silt (Rand Horizon) / Main Sand
MP-93A	Fill / A Clay
MP-93B MP-94A	A Clay A Clay
MP-94B	Main Silt
MP-95A MP-95B	A Clay Main Silt
MP-96A	A Clay
MP-96B	North Olive
MP-96C MP-96D	Rand Main
MP-97A	A Clay
MP-97B MP-97C	North Olive Rand
MP-97D	Main
MP-98A	A Clay
MP-98B MP-98C	North Olive Rand
MP-99A	A Clay
MP-99B MP-99C	Main Sitt Main
MP-100A	Fill
MP-100B MP-100C	A Clay Main Silt
MP-100D	Main
MP-101A	A Clay
MP-101B MP-101C	Main Silt Main
MP-102A	A Clay
MP-102B MP-102C	Main Silt Main
MP-103A	A Clay
MP-103B	Main Silt
MP-103C MP-104A	Main A Clay
MP-104B	Main Silt
MP-104C MP-105A	Main A Clay / N. Olive
MP-105A MP-105B	A Clay / N.Olive
MP-105C	A Clay / N.Olive
MP-105D MP-105E	A Clay / N.Olive A Clay / N.Olive
MP-106A	A Clay
MP-106B MP-106C	North Olive Rand
MP-107A	A Clay
MP-107B	North Olive
MP-107C MP-108A	Rand A Clay
MP-108B	North Olive
MP-108C RW-1	Rand
RW-2	Main Main
RW-3	Main
RW-4 RW-4A	Rand / C Clay / Main Sand Rand / C Clay / Main Sand
RW-5	Rand / C Clay / Main Sand





